

**Amendments to the claims:**

This listing of claims will replace all prior versions, and listing of claims in the application:

**Listing of claims:**

1. (Currently amended): A method in a computing system having an active first partition ~~including a executing program instructions~~ of a first operating system and an active second partition ~~including a executing program instructions of a~~ second operating system the method comprising the steps of:

a) collecting first partition cumulative throughput information in the active first partition, the throughput information consisting of any one of first partition processor utilization or first partition network packet activity;

b) calculating a velocity metric based on the first partition cumulative throughput information collected in the active first partition;

ac) conveying the velocity metric ~~first partition throughput information~~ from said active first partition to a partition manager;

bd) creating in said partition manager, resource balancing directives from said ~~throughput information~~ velocity metric; and

ee) dynamically allocating cross system resources to said active first partition by the partition manager according to the resource balancing directives, the cross system resources comprising one or more processors.

2. (Currently amended): The method according to claim 1 wherein the partition manager comprises a workload manager running in said active second partition and a hypervisor.

3. (Canceled)

4. (Original): The method according to claim 1 wherein communication between partitions includes single operation message passing.

5. (Canceled)

6. (Original): The method according to claim 1 wherein the information about throughput is obtained by counting network packets related to a partition.

7. (Original): The method according to claim 6 wherein packets received by a partition are counted.

8. (Original): The method according to claim 6 wherein packets sent by a partition are counted.

9. (Canceled)

10. (Currently amended): The method according to claim 1 wherein the calculating a velocity metric comprises ~~information about throughput is obtained by relating network traffic to a processor utilization~~ first partition processor utilization to first partition network packet activity over a period of time.

11. (Currently amended): The method according to claim 10 wherein the first partition network packet activity ~~network traffic~~ is obtained by counting network packets related to a the active first partition.

12. (Currently amended): The method according to claim 10 wherein ~~processor~~ first partition CPU utilization is obtained from a system activity counter.

13. (Original): The method according to claim 10 wherein processor utilization is a system activity counter.

14. (Canceled)

15. (currently amended): A computer program product comprising a computer useable medium having an active first partition ~~including a executing program instructions of a~~ first operating system and an active second partition ~~including a executing program instructions of a~~ second operating system, the computer readable program code in said computer program product comprising:

a) collecting first partition cumulative throughput information in the active first partition, the throughput information consisting of any one of first partition processor utilization or first partition network packet activity;

b) calculating a velocity metric based on the first partition cumulative throughput information collected in the active first partition;

ac) conveying the velocity metric ~~first-partition-throughput information~~ from said active first partition to a partition manager;

bd) creating in said partition manager, resource balancing directives from said ~~throughput information~~ velocity metric; and

ee) dynamically allocating cross system resources to said active first partition by the partition manager according to the resource balancing directives, the cross system resources comprising one or more processors.

16. (Currently amended): The ~~method~~ computer program product according to claim 15 wherein the partition manager comprises a workload manager running in said active second partition and a hypervisor.

17. (Currently amended): The ~~method~~ computer program product according to claim 15 wherein communication between partitions includes inter-partition memory sharing.

18. (Currently amended): The ~~method~~ computer program product according to claim 15 wherein communication between partitions includes single operation message passing.

19. (Canceled)

20. (Currently amended): The ~~method~~ computer program product according to claim 15 wherein the information about throughput is obtained by counting network packets related to a partition.

21. (Currently amended): The ~~method~~ computer program product according to claim 20 wherein packets received by a partition are counted.

22. (Currently amended): The ~~method~~ computer program product according to claim 20 wherein packets sent by a partition are counted.

23. (Canceled)

24. (Currently amended): The ~~method~~ computer program product according to claim 15 wherein the calculating a velocity metric comprises information about throughput is obtained by relating network traffic to a processor utilization first partition processor utilization to first partition network packet activity over a period of time.

25. (Currently amended): The ~~method~~ computer program product according to claim 24 wherein the first partition network packet activity network traffic is obtained by counting network packets related to a the active first partition.

26. (Currently amended): The ~~method~~ computer program product according to claim 24 wherein processor first partition CPU utilization is obtained from a system activity counter.

27. (Currently amended): The ~~method~~ computer program product according to claim 24 wherein processor utilization is a system activity counter.

28. (Canceled)

29. (Currently amended): A system in a computing system having an active first partition including a executing program instructions of a first operating system and an active second partition including a executing program instructions of a second operating system, the system comprising:

computer instructions to execute a method comprising:

a) collecting first partition cumulative throughput information in the active first partition, the throughput information consisting of any one of first partition processor utilization or first partition network packet activity;

b) calculating a velocity metric based on the first partition cumulative throughput information collected in the active first partition;

ac) conveying the velocity metric ~~first partition throughput information~~ from said active first partition to a partition manager;

bd) creating in said partition manager, resource balancing directives from said ~~throughput information~~ velocity metric; and

ee) dynamically allocating cross system resources to said active first partition by the partition manager according to the resource balancing directives, the cross system resources comprising one or more processors.

30. (Currently amended): The ~~method~~ system according to claim 29 wherein the partition manager comprises a workload manager running in said active second partition and a hypervisor.

31. (Canceled)

32. (Currently amended): The ~~method~~ system according to claim 29 wherein communication between partitions includes single operation message passing.

33. (Canceled)

34. (Currently amended): The ~~method~~ system according to claim 29 wherein the information about throughput is obtained by counting network packets related to a partition.

35. (Currently amended): The ~~method~~ system according to claim 34 wherein packets received by a partition are counted.

36. (Currently amended): The ~~method~~ system according to claim 34 wherein packets sent by a partition are counted.

37. (Canceled)

38. (Currently amended): The ~~method~~ system according to claim 29 wherein the calculating a velocity metric comprises information about throughput is obtained by relating network traffic to a processor utilization first partition processor utilization to first partition network packet activity over a period of time.

39. (Currently amended): The ~~method~~ system according to claim 38 wherein the first partition network packet activity network traffic is obtained by counting network packets related to a the active first partition.

40. (Currently amended): The ~~method~~ system according to claim 38 wherein ~~processor~~ first partition CPU utilization is obtained from a system activity counter.

41. (Currently amended): The method ~~method~~ system to claim 38 wherein processor utilization is a system activity counter.

42. (Canceled)

43. (Canceled)

44. (New): The method according to claim 1 wherein the velocity metric is conveyed by way of shared memory, the shared memory accessible to both the active first partition and the partition manager.

45. (New): The method according to claim 1 wherein the cross system resources further consist of any one of processor utilization and memory allocation.

46. (New): The method according to claim 1 wherein dynamically allocating cross system resources to said active first partition comprises the further step of:

increasing cross system resources to said active first partition when the velocity metric indicates the first partition processor utilization is high and the first partition network packet activity is low.

47. (New): The system according to claim 29 wherein the velocity metric is conveyed by way of shared memory, the shared memory accessible to both the active first partition and the partition manager.

48. (New): The system according to claim 29 wherein the cross system resources further consist of any one of processor utilization and memory allocation.

49. (New): The system according to claim 29 wherein dynamically allocating cross system resources to said active first partition comprises the further step of:



increasing cross system resources to said active first partition when the velocity metric indicates the first partition processor utilization is high and the first partition network packet activity is low.

50. (New): The computer program product according to claim 15 wherein the velocity metric is conveyed by way of shared memory, the shared memory accessible to both the active first partition and the partition manager.

51. (New): The computer program product according to claim 15 wherein the cross system resources further consist of any one of processor utilization and memory allocation.

52. (New): The computer program product according to claim 15 wherein dynamically\_allocating cross system resources to said active first partition comprises the further step of:

increasing cross system resources to said active first partition when the velocity metric indicates the first partition processor utilization is high and the first partition network packet activity is low.